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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,668	02/26/2002	Scott R. Gremmert	H0002146	8676	
128	7590 12/22/2004		EXAM	EXAMINER	
HONEYWELL INTERNATIONAL INC.			AMSBURY,	AMSBURY, WAYNE P	
P O BOX 22	IBIA ROAD 45		ART UNIT	ART UNIT PAPER NUMBER	
MORRISTO	WN, NJ 07962-2245		2161 DATE MAILED: 12/22/2004		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)				
	10/085,668	GREMMERT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Wayne Amsbury	2161				
The MAILING DATE of this communication		ith the corresp ndence address -	-			
Period for Reply		(0.1)T(1/0)				
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT:  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicati:  - If the period for reply specified above is less than thirty (30) days:  - If NO period for reply is specified above, the maximum statutory:  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION.  FR 1.136(a). In no event, however, may a on.  i, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communica  BANDONED (35 U.S.C. § 133).	ition.			
Status						
1)⊠ Responsive to communication(s) filed on	12 October 2004.					
,	This action is non-final.					
3) Since this application is in condition for al	llowance except for formal mat	ters, prosecution as to the merits	s is			
closed in accordance with the practice ur	ider <i>Ex parte Quayle</i> , 1935 C.E	). 11, 453 O.G. 213.				
Disposition of Claims .						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the applic	ation.					
4a) Of the above claim(s) is/are with						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exa	aminer.	•				
10)⊠ The drawing(s) filed on <u>26 February 2002</u>	0)⊠ The drawing(s) filed on <u>26 February 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the o	correction is required if the drawing	(s) is objected to. See 37 CFR 1.12	1(d).			
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attache	d Office Action or form PTO-152	•			
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> </ul>		§ 119(a)-(d) or (f).				
Certified copies of the priority docu     Certified copies of the priority docu		upplication No				
3. Copies of the certified copies of the						
application from the International B	•	received in this National Stage				
* See the attached detailed Office action for		received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-943)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/9449)</li> </ul>		s)/Mail Date nformal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6)  Other:	<del></del>				

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## **CLAIMS 1-26 ARE PENDING**

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Applicant's arguments filed 10/12/04 have been fully considered but they are not persuasive.

Applicant fails to recognize the role of elevation for situation awareness in the applications of Delorme to aviation. In the interest of compact prosecution, additional evidence of this role is provided in the rejections below.

3. Claims 1-6, 8-11, 13, 17-21 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeLorme et al (Delorme), US 5,559,707, 24 September 1996, in view of either of: Tran, US 5,883,586, 16 March 1999 or Sigeti et al (Sigeti), US 6,208,997, 27 March 2001.

Delorme is directed to a computer aided routing system that determines and provides routing information for users [COL 2 lines 20-26], and teaches the use of embodiments that are explicitly addressed to terrain [COL 43 lines 29-54].

As to **claim 1**, Delorme provides terrain data to multiple users who are multiple requesters [FIG 2; COL 9 lines 15-46].

Delorme teaches that users select an area of interest [COL 3 line 61 and after], and explicitly notes that data is extracted from a database [COL 31 lines 32-50; COL 35 lines 12-29; COL 47 line 50 and after]. The extracted data is sent to the requester [FIG 1x-2 and discussion]. Delorme provides for extensive formatting of the requested data throughout [COL 2 lines 19-32 and elsewhere].

Delorme does not explicitly address terrain elevation, but the discussion of COL 44 lines 28-54 makes clear that situation awareness in aviation is involved in a significant alternate embodiment. Tran provides explicit evidence of the role of terrain elevation information in situation awareness at COL 4 lines 15-32 and elsewhere. Sigeti provides similar evidence at COL 8 lines 24-46 and elsewhere. It would have been obvious to one of ordinary skill in the art at the time of the invention to include elevation information in terrain data in Delorme because Delorme is intended to be applied to aviation embodiments and because of the importance of the role of terrain elevation in aviation.

As to **claim 2**, map scaling is taught repeatedly by Delorme, such as at COL 28 lines 29-46].

As to **claim 3**, the user in Delorme is given a wide range of options [FIG 2; COL 26 lines 49-63] and in particular may choose orientations [COL 14 lines 12-27 and elsewhere].

As to **claim 4**, the entire discussion of FIGS 1B-1P [COL 12 line 27 and after] is directed to choosing location and size and resolution and type of terrain data required.

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As to **claim 5**, there are processes occurring at several levels, all ultimately controlled at some level by the user.

From the dependency of claim 5 on claim 1 it is clear that the intent of further limitation is control by the user, as opposed to other forms of industrial process control. All of the options noted above in Delorme are directed to user control of the process, which is an iterative process [COL 2 line 59 and after; COL 15 line 64 and after].

As to **claim 6**, the options of the user, as noted above, are used to address routing and priorities. The user imposes integrity on the results within the iterative process. In particular, note the use of multiple databases [COL 16 lines 37-55 and after].

The elements of **claims 8-11, 13, 17-21 and 26** are rejected in the analysis above and these claims are rejected on that basis.

4. Claims 7, 12, 14-16 and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeLorme et al (Delorme), US 5,559,707, 24 September 1996 in light of Lamburt et al (Lamburt), US 6,374,241, 16 April 2002, in further view of either of: Tran, US 5,883,586, 16 March 1999 or Sigeti et al (Sigeti), US 6,208,997, 27 March 2001.

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Official Notice is taken that it was well known at the time of the invention to use multiple servers for performing online data queries in an efficient manner and in particular for streaming of multimedia data for the purposes of reliability or integrity or redundancy and.

In the interest of compact prosecution, Lamburt is provided as evidence of the Official Notice above. Lamburt is addressed to facilitating efficient data transfer of multimedia data (such as terrain data) [0003] in order to enhance the performance and reliability of data transmission to a user [0044]-[0046].

As to claims 7 and 12, Delorme teaches the use of multiple databases, but does not explicitly place them on separate servers, which is the further limitation of this claim. Lambert provides evidence that it was well known at the time of the invention to service online queries from separate server nodes, each fully redundant and capable of processing a request [ABSTRACT and elsewhere].

It would have been obvious to one of ordinary skill in the art at the time of the invention to service queries on separate servers because redundancy provides for comparison of sources and the correction of errors, thus promoting data integrity.

As to **claims 14-15**, Lamburt teaches the use of queues in general for managing cached data objects [COL 27 lines 57-60], and for managing requests in particular [FIG 23; COL 11 lines 7-12; COL 11 lines 41-45; COL 16 lines 32-50]. The functions of adding and removing (de-queuing) are inherent in the data structure of a queue.

It would have been obvious to one of ordinary skill in the art at the time of the invention to remove aborted requests because otherwise they would be improperly processed when they reach the front of the queue.

As to claim 16, the use of a queue determines that orders are processed by in the order received.

The elements of **claims 22-24** are rejected in the analysis above and these claims are rejected on that basis.

As to **claim 25**, Lamburt explicitly teaches the use of parallel processing [COL 57 lines 37-45; COL 58 lines 14-28].

5. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Amsbury whose telephone number is 571-272-4015. The examiner can normally be reached on M-F 6-18:30 FIRST WEEK.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**WPA** 

WAYNE AMSBURY PRIMARY PATENT EXAMINER